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--81. (Amended) A surface optical apparatus comprising:

a surface light emitting device;

a substrate for supporting the surface light emitting device;

wherein the surface light emitting device includes a protrusion with

an opening; and

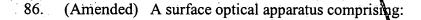
a photodetector to detect output light from the surface light emitting

device.

82. (Unamended) A surface optical apparatus according to claim 81, wherein evanescent light leaks from the opening.



- 83. (Unamended) A surface optical apparatus according to claim 81, wherein the size of the opening is less than 100 nm.
- 84. (Unamended) A surface optical apparatus according to claim 81, wherein the shape of the protrusion is a quadrangle pyramid.
- 85. (Unamended) A surface optical apparatus according to claim 81, wherein said surface light emitting device is supported by said substrate through an elastic supporter.





a surface light emitting device; and

a substrate for supporting the surface light emitting device through an elastic supporter; wherein said substrate comprises a Si substrate with a SiN<sub>x</sub> thin layer formed thereon, and said elastic supporter comprises a portion of said SiN<sub>x</sub> thin layer under which Si substrate is removed and wherein the surface light emitting device includes a protrusion with an opening.

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87. (Amended) A surface optical apparatus comprising:

a surface light emitting device; and

a substrate for supporting the surface light emitting device through an elastic supporter; wherein said substrate comprises a Si substrate with a SiN<sub>2</sub> thin layer and a Si thin formed thereon in this order, and said elastic supporter comprises a portion of said Si thin layer under which said Si substrate and said SiN<sub>2</sub> thin layer are removed and wherein the surface light emitting device includes a protrusion with an opening.

88. (Cancelled)

89. (Unamended) A surface optical apparatus according to claim 81, wherein said surface light emitting device comprises a surface emitting semiconductor laser.

- 90. (Unamended) A surface optical apparatus according to claim 81, wherein said surface light emitting device comprises thin semiconductor layers grown on another substrate, and said another substrate is mounted on said substrate.
- 91. (Unamended) A surface optical apparatus according to claim 89, wherein the surface emitting semiconductor laser includes at least one of a layer of GaAs, a layer of AlGaAs and a layer of InGaAs.
- 92. (Unamended) A surface optical apparatus according to claim 89, wherein the surface emitting semiconductor laser includes at least one of a layer of GaN, a layer of AlGaN and a layer of InGaN.
  - 93. (Amended) A surface optical apparatus comprising:
    an elastic supporter;
    a surface light emitting device on the elastic supporter; and
    a photodetector to detect output light from the surface light emitting
- 94. (Unamended) A surface optical apparatus according to claim 93, wherein said elastic supporter is shaped into a cantilever.

device.

95. (Unamended) A surface optical apparatus according to claim 93, wherein said elastic supporter is shaped as a trapezoidal cantilever whose central portion is removed.

96. (Unamended) A surface optical apparatus according to claim 93, wherein said surface light emitting device comprises a surface emitting semiconductor laser.



- 97. (Cancelled)
- 98. (Unamended) A surface optical apparatus according to claim 96, wherein the surface emitting semiconductor laser includes at least one of a layer of GaAs, a layer of AlGaAs and a layer of InGaAs.
- 99. (Unamended) A surface optical apparatus according to claim 96, wherein the surface emitting semiconductor laser includes at least one of a layer of GaN, a layer of AlGaN and a layer of InGaN.--

## <u>REMARKS</u>

The claims are 81-87, 89-96, 98 and 99 with claims 81 and 93 being independent. Former claims 88 and 97 have been cancelled without prejudice or disclaimer.